PCB INSPECTION PLAN

Status:	Enforcement		CBI:		Open:	X	Routine		Others	

Site Name/Facility	ORRCO - dba Fuel Processors, Inc.
Address:	5758 Gebhard Road, Central Point, Oregon 97502
Contact Person:	Mr. Bill Briggs

COOPERATING AGENCIES/PARTIES INVOLVED:

Contact Person	Agency	Phone Number
Dave Wall	Oregon Department of Environmental Quality	503-229-6385

AUTHORIZED INSPECTOR/SAMPLE COLLECTOR AND PHONE NUMBER:

Bruce Long, USEPA Oregon Operations Office - 503-326-3686

SAMPLING REQUIREMENTS

Parameter	Method	Quantitation Limits	Number of Samples	Type of Samples	Collection Date	Laboratory ETA	Remarks
PCB	8082	see QA Plan	20	Oil Wipe	03/11/2010		

SPECIAL CONSIDERATIONS OR "OPEN" REQUIREMENTS:

Please send preliminary results via email.
Samples to be delivered to Lab on 03/16/2010
May also asked for some organic screening on selected samples for 8270B and 8260A

FOR QAO/RSCC USE ONLY

RSCC RECEIPT AND LAB REQUEST:
DATE

QAO CONCURRENCE:
DATE

Project Code: _____ Account Code: AFLL3A

Sample Numbers Assigned: From _____ to

FOR LAB USE ONLY

Analyses accepted? (Y/N)

Comments:

Accepted by: _____ Date:

(Use other side of form if additional space is needed)

QUALITY ASSURANCE PLAN FOR

PCB
AUTHORIZED INSPECTORS

Prepared by
Office of Quality Assurance
U.S.E.P.A. Region 10

Date: 5/6/98
Revision: 1.0

INTRODUCTION

This document is intended to provide the Air and Toxics Division with a basic Quality Assurance Plan (QAPP) for PCB inspections. This QAPP is designed to assist the PCB Inspector in the execution of proper sample documentation and methodologies for (1) sample collection, (2) analytical methods and (3) data generation, reduction, validation and interpretation.

PROJECT ORGANIZATION AND RESPONSIBILITY

This section identifies the personnel involved in the PCB inspection and defines their respective responsibilities in the process.

Inspector - The inspector represents the TSCA program on site. His main responsibility is to prepare a final inspection report to be submitted to the immediate program manager based on the results of the inspection conducted and the sample analytical data obtained from the laboratory. In conjunction, the inspector shall also be responsible for the site inspection; collection of samples; coordination with the Regional Sample Control Center (RSCC) for regional sample numbers and laboratory analysis schedule; maintenance of sample documentation and receipt of sample analytical results. All of these tasks shall be performed in accordance with the approved QA Plan for PCB inspection.

Regional Sample Control Center (RSCC) - The role of RSCC is to coordinate and schedule sample delivery and analysis with the regional laboratory based on the information provided by the inspector in the PCB Inspection Plan Form (see attachment 1). For sample tracking, the RSCC also provides the inspector with the regional sample numbers and the corresponding project work and account numbers. Region 10 RSCC is located within the Region 10 QA Office.

Manchester Environmental Laboratory (MEL) - This is the EPA regional analytical laboratory located at Port Orchard, WA. For the TSCA program, MEL is responsible for the following tasks: sample extraction and analysis; data generation, reduction, and validation; submission of PCB analytical data printouts (Form 1) for each sample to the inspector and a QC summary for precision and accuracy information for the analysis performed.

SAMPLE COLLECTION

All sampling measurements shall be accomplished in accordance with the technical specifications of the approved QAPP for PCB Inspections and Chapter 2 of the "Toxic Substances Control Act Inspection Manual, Volume Two: PCB Manual, March 1981".

The inspector shall notify the RSCC of all pre-planned sampling events before samples are collected. It usually takes 3 working days for the RSCC to coordinate laboratory analysis for pre-scheduled sampling.

The RSCC shall also provide block(s) of regional sample numbers after a completed and signed copy of the "PCB Inspection Plan" (Attachment 1) had been submitted by the inspector. The PCB Inspector Plan Form can be accessed and printed through the LAN. In cases where a sampling opportunity unexpectedly occurs (unscheduled sampling), the RSCC shall respond within 24 hours of initial inspector contact.

The inspector shall, by signature on a Chain of Custody Form, accept responsibility for maintaining custody and meeting all applicable schedules agreed to with the RSCC. A completed plan may contain "open" items which are left "open" to give the inspector the needed flexibility to efficiently conduct the field operation phase of the inspection. Upon completion of the field operation phase, the "open" items shall be filled out by the inspector. The inspector shall document any methodology changes with the use of a Sample Alteration Checklist or Corrective Action Form (attachment 1).

SAMPLE EQUIPMENT AND PROCEDURES

Sampling procedure and equipment used shall be selected from methodologies discussed in Appendix A. The choice of procedure and equipment shall also be dictated by the site requirements and inspector's professional judgment. Deviations from the plan may be acceptable with a full documentation in the "open" sections of the Inspection Plan or justification in the Sample Alteration Checklist or Corrective Action Form.

SAMPLE DOCUMENTATION AND CHAIN OF CUSTODY PROCEDURES

Appendix B of this document is the Quality Assurance Guidance package for Sample Custody and Documentation. This has been developed for all QA plans and reviewed by the Regional Counsel's Office. This guidance is subject to review and corrections as regulatory requirements evolve. Therefore, the inspector should assure that the most current version of the guidance package is used at all times.

For inspectors, the approved QAPP, together with sampling methodologies and QA guidelines discussed in Appendices A and B are the controlling instructions for meeting Custody and Documentation requirements during field operations. At a minimum, any sample delivered to the EPA Laboratory must be identified by an appropriate tag or label containing a Sample Number, keyed to, and accompanied by a completed Field Sample Data and Chain of Custody Sheet(s). The inspector is responsible for completing the documentation required in the inspection file by making sure that all forms are completed and collected in the file. This will include field logs or notes, field data and chain of custody sheets, sample shipment logs, carrier waybills or air bills, analysis request forms, analytical data and other records and documents pertinent to the program.

DATA QUALITY OBJECTIVES

Table 1 Summary of Data Quality Objectives

Matrix	Method	Accuracy (Bias)		Precision	Completeness
		Detection Limits	Surrogate Recoveries	RPD	Percent
Soil	8082	40 ug/kg	60-150%	35%	95%
Oil	8082	1.0 mg/kg	60-150%	35%	95%
Water	8082	1 ug/l	60-150%	35%	95%
Wipe	8082	1 ug/wipe, or, 1 mg/l of extract	60-150%	35%	95%

Approved TSCA analytical methods and QC procedures shall be used. For this program, MEL currently use the modified SW846 - Method 8082 - Organochlorine Pesticides, Halowaxes and PCBs as Aroclors by Gas Chromatography: Capillary Column Technique from the "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd edition".

The inspector or the designated manager shall review the analytical results and determine if the Data Quality Objectives (DQOs) requested were met. If not, corrective action will be initiated to provide usable data to the program.

DELIVERABLES

All data generated and other related documentations under this QAPP shall be utilized by the Inspector and/or designated manager to meet the reporting requirements of the program. This can range from file retention to inclusion in major reports, as required for compliance to CFR 40-761.

SYSTEM AND PERFORMANCE AUDITS

Data Management System Audits are routine QAO functions. Technical system audits may be performed if requested by Regional, Division or Branch Management, or the authorized inspector or delegated manager if resources are available.

Preliminary Results ORRCO OOO-145A

Megan Pickett to: Bruce Long, Karen Norton 04/07/2010 12:45 PM

Hi Bruce,

You will find that my results are not consistent with the results you received from another lab. The RLs will vary depending on the interferences but should not exceed 5mg/kg.

10104400 no aroclors found
10104401 no aroclors found
10104402 no aroclors found
10104403 no aroclors found
10104404 no aroclors found
10104405 no aroclors found
10104406 no aroclors found
10104407 10-12 mg/kg 1248
10104408 no aroclors found
10104409 no aroclors found
10104410 no aroclors found
10104411 no aroclors found
10104412 no aroclors found - the RL is about 2ppm
10104413 no aroclors found

The information in this report is being supplied to you at your request as 'Preliminary Results'. Results have not undergone the same level of review as a final report. Once all reviews have taken place, it is possible that results in the final report may vary from those in this report.

Megan Pickett
Chemist
U.S. EPA Region 10 Laboratory
Phone: (360) 871-8719
Fax: (360) 871-8747

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for PCB Aroclor Results from the Region 10 USEPA Laboratory

PROJECT NAME: ORRCO, Fuel Processors, Inc, Portland, OR

PROJECT CODE: OOO-145A

FROM: Gerald Dodo, Supervisory Chemist
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Bruce Long
Office of Compliance and Enforcement
USEPA Region 10

I have authorized release of this data package. Attached you will find the PCB Aroclor analysis results for the ORRCO, Fuel Processors, Inc, Portland, OR samples collected on 03/10/10 and 03/11/10. For further information regarding the attached data, please contact Chris Pace at 360-871-8703. For the schedule of the remaining analyses, contact me at 360-871-8728.

Manchester Environmental Laboratory
Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	3/10/10	**14:15:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104400	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	S01-10-0228-001			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	3.3	mg/kg	U
	11104282	PCB-1221	3.3	mg/kg	U
	11141165	PCB-1232	6.6	mg/kg	U
	53469219	PCB-1242	3.3	mg/kg	U
	12672296	PCB-1248	3.3	mg/kg	U
	11097691	PCB-1254	3.3	mg/kg	U
	11096825	PCB-1260	3.3	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	91	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	10104400
Account Code:	1011B10P201B53C	**Type:**	Matrix Spike
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/31/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	91	%Rec
	11097691	PCB-1254	63	%Rec

Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	10104400
Account Code:	1011B10P201B53C	**Type:**	Matrix Spike Dupl
Station Description:			

		Result	Units	Qlfr
ORG				
Parameter	: Polychlorinated Biphenyl			Container ID : N1
Method	: 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 4/1/2010
Prep Method	: 3580A 3580A Serial Dilution			Prep Date : 3/31/2010
Surrogate(s :	*2051243 Decachlorobiphenyl	71	%Rec	
	11097691 PCB-1254	60	%Rec	

Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	3/10/10	**14:20:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104401	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	BATCH# 10020			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	3.2	mg/kg	U
	11104282	PCB-1221	3.2	mg/kg	U
	11141165	PCB-1232	6.5	mg/kg	U
	53469219	PCB-1242	3.2	mg/kg	U
	12672296	PCB-1248	3.2	mg/kg	U
	11097691	PCB-1254	3.2	mg/kg	U
	11096825	PCB-1260	3.2	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	77	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	3/10/10	**14:25:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104402	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	01-10-0117-001			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	9.3	mg/kg	U
	11104282	PCB-1221	9.3	mg/kg	U
	11141165	PCB-1232	19	mg/kg	U
	53469219	PCB-1242	9.3	mg/kg	U
	12672296	PCB-1248	9.3	mg/kg	U
	11097691	PCB-1254	9.3	mg/kg	U
	11096825	PCB-1260	9.3	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	99	%Rec	

Project Code:	OOO-145A	**Collected:**	3/10/10	**14:31:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104403	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	01-10-0122-001			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/2/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	4.8	mg/kg	U
	11104282	PCB-1221	4.8	mg/kg	U
	11141165	PCB-1232	9.6	mg/kg	U
	53469219	PCB-1242	4.8	mg/kg	U
	12672296	PCB-1248	4.8	mg/kg	U
	11097691	PCB-1254	4.8	mg/kg	U
	11096825	PCB-1260	4.8	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	91	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	10104403
Account Code:	1011B10P201B53C	**Type:**	Matrix Spike
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : N1
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 4/2/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 4/1/2010
Surrogate(s :	*2051243	Decachlorobiphenyl	102	%Rec	
	12674112	PCB-1016	115	%Rec	
	11096825	PCB-1260	100	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	10104403
Account Code:	1011B10P201B53C	**Type:**	Matrix Spike Dupl
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : N1
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 4/5/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 4/1/2010
Surrogate(s):	*2051243	Decachlorobiphenyl	135	%Rec	
	12674112	PCB-1016	121	%Rec	
	11096825	PCB-1260	100	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**10:00:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104404	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	01-10-0411-001			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.5	mg/kg	U
	11104282	PCB-1221	1.5	mg/kg	U
	11141165	PCB-1232	3.0	mg/kg	U
	53469219	PCB-1242	1.5	mg/kg	U
	12672296	PCB-1248	1.5	mg/kg	U
	11097691	PCB-1254	1.5	mg/kg	U
	11096825	PCB-1260	1.5	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	78	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**10:15:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Solid	
Project Officer:	BRUCE LONG	**Sample Number:**	10104405	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	FPI- SOLIDS			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.2	mg/kg	U
	11104282	PCB-1221	1.2	mg/kg	U
	11141165	PCB-1232	2.5	mg/kg	U
	53469219	PCB-1242	1.2	mg/kg	U
	12672296	PCB-1248	1.2	mg/kg	U
	11097691	PCB-1254	1.2	mg/kg	U
	11096825	PCB-1260	1.2	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	105	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**10:40:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104406	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	INO-0202-001			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.6	mg/kg	U
	11104282	PCB-1221	1.6	mg/kg	U
	11141165	PCB-1232	3.2	mg/kg	U
	53469219	PCB-1242	1.6	mg/kg	U
	12672296	PCB-1248	1.6	mg/kg	U
	11097691	PCB-1254	1.6	mg/kg	U
	11096825	PCB-1260	1.6	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	64	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**10:50:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104407	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	RFO-WPB			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/6/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	4.8	mg/kg	U
	11104282	PCB-1221	4.8	mg/kg	U
	11141165	PCB-1232	9.5	mg/kg	U
	53469219	PCB-1242	4.8	mg/kg	U
	12672296	**PCB-1248**	**15**	**mg/kg**	
	11097691	PCB-1254	4.8	mg/kg	U
	11096825	PCB-1260	4.8	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	101	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	10104407
Account Code:	1011B10P201B53C	**Type:**	Duplicate
Station Description:			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/6/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	4.8	mg/kg	U
	11104282	PCB-1221	4.8	mg/kg	U
	11141165	PCB-1232	9.6	mg/kg	U
	53469219	PCB-1242	4.8	mg/kg	U
	12672296	**PCB-1248**	**13**	**mg/kg**	
	11097691	PCB-1254	4.8	mg/kg	U
	11096825	PCB-1260	4.8	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	78	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**10:55:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104408	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	0210-0206-003			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	4.8	mg/kg	U
	11104282	PCB-1221	4.8	mg/kg	U
	11141165	PCB-1232	9.6	mg/kg	U
	53469219	PCB-1242	4.8	mg/kg	U
	12672296	**PCB-1248**	**2.2**	**mg/kg**	
	11097691	PCB-1254	4.8	mg/kg	U
	11096825	PCB-1260	4.8	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	78	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**11:00:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104409	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	0209-1217-002			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.9	mg/kg	U
	11104282	PCB-1221	1.9	mg/kg	U
	11141165	PCB-1232	3.7	mg/kg	U
	53469219	PCB-1242	1.9	mg/kg	U
	12672296	PCB-1248	1.9	mg/kg	U
	11097691	PCB-1254	1.9	mg/kg	U
	11096825	PCB-1260	1.9	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	106	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**11:05:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104410	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	0301-002			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.9	mg/kg	U
	11104282	PCB-1221	1.9	mg/kg	U
	11141165	PCB-1232	3.8	mg/kg	U
	53469219	PCB-1242	1.9	mg/kg	U
	12672296	PCB-1248	1.9	mg/kg	U
	11097691	PCB-1254	1.9	mg/kg	U
	11096825	PCB-1260	1.9	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	94	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**11:10:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104411	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	0210-0304-001			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	4.8	mg/kg	U
	11104282	PCB-1221	4.8	mg/kg	U
	11141165	PCB-1232	9.6	mg/kg	U
	53469219	PCB-1242	4.8	mg/kg	U
	12672296	PCB-1248	4.8	mg/kg	U
	11097691	PCB-1254	4.8	mg/kg	U
	11096825	PCB-1260	4.8	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	92	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**11:15:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104412	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	0210-0218-005			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/2/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	2.0	mg/kg	U
	11104282	PCB-1221	2.0	mg/kg	U
	11141165	PCB-1232	3.9	mg/kg	U
	53469219	PCB-1242	2.0	mg/kg	U
	12672296	PCB-1248	2.0	mg/kg	U
	11097691	PCB-1254	2.0	mg/kg	U
	11096825	PCB-1260	2.0	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	71	%Rec	

Project Code:	OOO-145A	**Collected:**	3/11/10	**11:20:00**
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil	
Project Officer:	BRUCE LONG	**Sample Number:**	10104413	
Account Code:	1011B10P201B53C	**Type:**	Reg sample	
Station Description:	0216-002			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : N1
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	0.48	mg/kg	U
	11104282	PCB-1221	0.48	mg/kg	U
	11141165	PCB-1232	1.0	mg/kg	U
	53469219	PCB-1242	0.48	mg/kg	U
	12672296	PCB-1248	0.48	mg/kg	U
	11097691	PCB-1254	0.48	mg/kg	U
	11096825	PCB-1260	0.48	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	103	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078B1
Account Code:	1011B10P201B53C	**Type:**	Blank
Station Description:			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.7	mg/kg	U
	11104282	PCB-1221	1.7	mg/kg	U
	11141165	PCB-1232	3.3	mg/kg	U
	53469219	PCB-1242	1.7	mg/kg	U
	12672296	PCB-1248	1.7	mg/kg	U
	11097691	PCB-1254	1.7	mg/kg	U
	11096825	PCB-1260	1.7	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	104	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078F1
Account Code:	1011B10P201B53C	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/1/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	100	%Rec	
	12674112	PCB-1016	91	%Rec	
	11096825	PCB-1260	98	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078F2
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : 0
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 3/30/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 3/19/2010
Surrogate(s):	*2051243	Decachlorobiphenyl	120	%Rec	
	12674112	PCB-1016	102	%Rec	
	11096825	PCB-1260	112	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078F3
Account Code:	1011B10P201B53C	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 3/30/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	116	%Rec
	53469219	PCB-1242	101	%Rec

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078F4
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 3/30/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	110	%Rec	
	53469219	PCB-1242	98	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078F5
Account Code:	1011B10P201B53C	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : 0
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 3/30/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 3/19/2010
Surrogate(s :	*2051243	Decachlorobiphenyl	100	%Rec	
	11097691	PCB-1254	108	%Rec	

Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0078F6
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0

Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 3/30/2010

Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/19/2010

			Result	Units	Qlfr
Surrogate(s) :	*2051243	Decachlorobiphenyl	98	%Rec	
	11097691	PCB-1254	103	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0090B1
Account Code:	1011B10P201B53C	**Type:**	Blank
Station Description:			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 3/31/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/31/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.7	mg/kg	U
	11104282	PCB-1221	1.7	mg/kg	U
	11141165	PCB-1232	3.3	mg/kg	U
	53469219	PCB-1242	1.7	mg/kg	U
	12672296	PCB-1248	1.7	mg/kg	U
	11097691	PCB-1254	1.7	mg/kg	U
	11096825	PCB-1260	1.7	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	117	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0090F1
Account Code:	1011B10P201B53C	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : 0
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 3/31/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 3/31/2010
Surrogate(s :	*2051243	Decachlorobiphenyl	119	%Rec	
	12674112	PCB-1016	104	%Rec	
	11096825	PCB-1260	106	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0090F2
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 3/31/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/31/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	115	%Rec	
	12674112	PCB-1016	102	%Rec	
	11096825	PCB-1260	104	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0090F3
Account Code:	1011B10P201B53C	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : 0
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 3/31/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 3/31/2010
Surrogate(s)	: *2051243	Decachlorobiphenyl	107	%Rec	
	11097691	PCB-1254	100	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0090F4
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 3/31/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 3/31/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	108	%Rec	
	11097691	PCB-1254	100	%Rec	

Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0091B1
Account Code:	1011B10P201B53C	**Type:**	Blank
Station Description:			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/2/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.7	mg/kg	U
	11104282	PCB-1221	1.7	mg/kg	U
	11141165	PCB-1232	3.3	mg/kg	U
	53469219	PCB-1242	1.7	mg/kg	U
	12672296	PCB-1248	1.7	mg/kg	U
	11097691	PCB-1254	1.7	mg/kg	U
	11096825	PCB-1260	1.7	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	128	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0091B2
Account Code:	1011B10P201B53C	**Type:**	Blank
Station Description:			

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

			Result	Units	Qlfr
Analytes(s):	12674112	PCB-1016	1.7	mg/kg	U
	11104282	PCB-1221	1.7	mg/kg	U
	11141165	PCB-1232	3.3	mg/kg	U
	53469219	PCB-1242	1.7	mg/kg	U
	12672296	PCB-1248	1.7	mg/kg	U
	11097691	PCB-1254	1.7	mg/kg	U
	11096825	PCB-1260	1.7	mg/kg	U
Surrogate(s :	*2051243	Decachlorobiphenyl	110	%Rec	

Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0091F1
Account Code:	1011B10P201B53C	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : 0
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 4/5/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 4/1/2010
Surrogate(s :	*2051243	Decachlorobiphenyl	134	%Rec	
	12674112	PCB-1016	105	%Rec	
	11096825	PCB-1260	123	%Rec	

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0091F3
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr

ORG

Parameter : Polychlorinated Biphenyl — Container ID : 0
Method : 8082 Polychlorinated Biphenyls (PCBs/congeners) by GC — Analysis Date : 4/5/2010
Prep Method : 3580A 3580A Serial Dilution — Prep Date : 4/1/2010

Surrogate(s :	*2051243	Decachlorobiphenyl	111	%Rec
	12674112	PCB-1016	98	%Rec
	11096825	PCB-1260	99	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project OOO-145A

Project Code:	OOO-145A	**Collected:**	
Project Name:	ORRCO FUEL PROCESSORS	**Matrix:**	Oil
Project Officer:	BRUCE LONG	**Sample Number:**	OBO0091F4
Account Code:	1011B10P201B53C	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
ORG					
Parameter	: Polychlorinated Biphenyl				Container ID : 0
Method	: 8082	Polychlorinated Biphenyls (PCBs/congeners) by GC			Analysis Date : 4/2/2010
Prep Method	: 3580A	3580A Serial Dilution			Prep Date : 4/1/2010
Surrogate(s :	*2051243	Decachlorobiphenyl	102	%Rec	
	12674112	PCB-1016	103	%Rec	
	11096825	PCB-1260	93	%Rec	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

QUALITY ASSURANCE MEMORANDUM FOR ORGANIC CHEMICAL ANALYSES

Date: May 5, 2010

To: Bruce Long, Project Manager
Office of compliance and Enforcement, USEPA Region 10

From: Chris Pace, Chemist
Office of Environmental Assessment, USEPA Region 10 Laboratory

Subject: Quality Assurance Review for the PCB Aroclor Analysis of Samples from the ORRCO Fuel Processors, Inc, Portland, OR

Project Code: OOO-145A
Account Code: 20102011B10P201B53C

The following is a quality assurance review of the data for PCB Aroclor analysis samples from the above referenced site. The analyses were performed by EPA Region 10 Laboratory Chemists following US EPA Laboratory guidelines.

This review was conducted for the following samples:

10104400	10104401	10104402	10104403	10104404	10104405	10104406
10104407	10104408	10104409	10104410	10104411	10104412	10104413

1. Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

All measures of quality control met Laboratory/QAPP criteria.

For those tests for which the EPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met.

2. Sample Holding Times

Upon sample receipt, no conditions were noted that would impact data quality.

3. Sample Holding Times

The concentration of an analyte in a sample or extract of a sample may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples and extracts. Extracts were analyzed within 40 days of preparation. No qualifiers were applied based on holding times.

4. Sample Preparation

Samples were prepared according to the method.

5. Initial Calibration/Continuing Calibration Verification (CCV)

Initial calibrations were performed on 03/29/10 and 04/06/10. Calibration curves met the coefficient of determination criteria.

The CCV for reported samples met the criteria for frequency of analysis and relative retention time (RRT) windows. The percent accuracies met the criteria of 80-120% of the true value.

6. Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

LCS/LCSD are generated to provide information on the accuracy and precision of the analytical method and the laboratory performance. The LCS/LCSD recoveries were within the criteria of 70-130% with a relative percent difference ≤50%.

7. Blank Analysis

Method blanks were analyzed with each sample batch to evaluate the potential for laboratory contamination and effects on the sample results. Target analytes were not detected in method blanks.

8. Surrogate Spikes

Surrogate recoveries are used to help in the evaluation of laboratory performance on individual samples. The surrogate compound used for these analyses was decachlorobiphenyl. All surrogate recoveries were within the criteria of 50-150%.

9. Matrix Spike/Matrix Spike Duplicate Analysis (MS/MSD)

MS/MSD analyses are performed to provide information on the effects of sample matrices toward the analytical method. An MS/MSD analysis was performed using samples 10104400 (S1/S2) and 10104403 (S1/S2). The MS/MSD recoveries were within the criteria of 30-150% with a relative percent difference ≤50%.

10. Compound Quantitation

The initial calibration functions were used for calculations. Reported quantitation limits were based on the initial calibration standards and sample size used for the analysis.

Sample 10104407 was prepared and analyzed in duplicate. The duplicate results were ≤50%.

All manual integrations have been reviewed and found to comply with acceptable integration practices.

11. Identification

PCBs and the surrogate were identified based on chromatographic retention times of two dissimilar gas chromatography columns as determined from the initial calibration.

12. Changes from Preliminary Data

No changes to the pentachlorophenol results were made between the preliminary and final data.

13. Data Qualifiers

All requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound was checked for positive or negative results. From this, the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Chris Pace at the Region 10 Laboratory, phone number (360) 871 - 8703.

Qualifier	Definition
U	The analyte was not detected at or above the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
UJ	The analyte was not detected at or above the reported value. The reported value is an estimate.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable. No value is reported with this qualification.
NA	Not Applicable, the parameter was not analyzed for, or there is no analytical result for this parameter. No value is reported with this qualification.

EPA Region 10, 1200 Sixth Avenue, Seattle, WA 98101

Sample Custody & Analysis Required Form

EPA Manchester Laboratory, 7411 Beach Drive East, Port Orchard, WA 98366, 360-871-8700

Form Effective Date: July 2005 — Revision 1

Project Name	Project Code	Method of Shipment/carrier	Airbill Number (if known prior to sealing):
ORRCO Portland	000-145A	Fedex	

Account Code	EPA Project Manager/phone number	Check all that apply
2010 2011 B1 0P501 E50C	Bruce Long	☒ Enforce/Custody ☐ Possible Toxic/Hazardous ☐ Data Confidential

Sampler Names (Print & Sign). *Mark* (R) *after name of principal recorder.*

Bruce Long (R)

If applicable, circle the set of selected metals:

Al	Sb	As	Ba	Be
B	Cd	Ca	Cr	Co
Cu	Fe	Pb	Mg	Mn
Mo	Ni	K	Se	Ag
Na	Sn	Tl	V	Zn

(see reverse for more to add/circle)

① Matrix Codes:
10 Water/Liquid (Total)
20 Water/Liquid (Filtered)
40 Sediment/Soil/Solid/Bulk
70 Tissue
80 Oil/Solvent
44 Air filter
42 Wipe/Swab[1]
00 _____

[1] PCB wipe is to be 10cm x 10cm (100 cm²)

#C ② enter the number of containers for each preservative type followed by the appropriate preservation code P ③:

A - HCl
B - HNO_3
C - NaOH
D - H_2SO_4
E - $Na_2S_2O_3$
F - ascorbic acid[2], then HCl
G - $Na_2S_2O_3$+EDTA
H - EDTA
N - No chemical preservation
P - Bottles pre-preserved at lab
T - To be preserved at the lab

[2] *$Na_2S_2O_3$ if required by plan.*

W - _____

☐ Check here if the cooler is iced

④ Enter the letter or range of letters on each container for each group of containers with the same preservative type. Each container for each unique sample number must have a unique letter on it.

Laboratory: *see the applicable QAPP, SOW and/or Analytical Support Request for specific methods and detection, reporting, and/or quantitation limits*

Sampler's comments for the laboratory:
The samples are used oil that have been processed
Sample locations are batch numbers used by ORRCO

EPA Sample number Yr	Wk	Sequence	Sampling Date & Time Yr	Mo	Day	Time	Matrix ①	#C ②	P ③	#C ②	P ③	#C ②	P ③	#C ②	P ③	Sampler Initials	Sample/Station Description/Field Measurements	Organics (see reverse) VOA	BNA	Pest	PCB	PAH	Metals (see reverse) CLP	Selected	Mercury	Micro (see reverse) E. Coli	F. Coliform	T. Coliform	General Chemistry (see reverse) TSS	TDS	BOD 5	NO2+NO3	Oil & Grease	Asbestos	Additional Write in Analyses (see reverse)			
10	10	44006	10	03	10	1415	80	1	N							BS	S01-10-0228-001				X																		
10	10	44011	10	03	10	1420	80	1	N							BS	Batch # 10020				X																		
10	10	44025	10	03	10	1425	80	1	N							BS	01-10-0117-001				X																		
10	10	44034	10	03	10	1431	80	1	N							BS	01-10-0122-001				X																		
10	10	44045	10	03	11	1000	80	1	N							BS	01-10-0411-001				X																		
10	10	44056	10	03	11	1015	40	2	N							BS	FPI-Solids	X			X																		
10	10	44067	10	03	11	1040	80	2	N							BS	IND# 0202-001	X			X																		
10	10	44078	10	03	11	1050	80	1	N							BS	KFO WPB				X																		
10	10	44088	10	03	11	1055	80	1	N							BS	0210-0206-003				X																		
10	10	44099	10	03	11	1100	80	1	N							BS	0209-1217-002				X																		
10	10	44105	10	03	11	1105	80	1	N							BS	0301-002				X																		
10	10	44111	10	03	11	1110	80	1	N							BS	0210 0304-001				X																		
10	10	44125	10	03	11	1115	80	1	N							BS	0210 0218-005				X																		
10	10	44136	10	03	11	1120	80	1	N							BS	0216-002				X																		
																	End																					

Chain of Custody Record

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
Relinquished by (Signature)	Date	Time	Received by **Mobile Lab** for Field Analysis (Signature)	Date	Time
Shipped (Signature)	Date 3/15/2010	Time 3:00 pm	Received for **lab** by (Signature)	Date	Time

Receiving Laboratory Information Condition of Samples upon Receipt at Lab:

Custody Seals Intact: ☐ yes ☐ no ☐ none

Distribution: White - Laboratory Copy; Yellow - Regional Sample Control Center (RSCC) Copy; Pink - Field Copy

SHIPPER'S DECLARATION FOR DANGEROUS GOODS **(Provide at least three copies to the airline.)**

Shipper

USEPA Oregon Operations Office
805 SW Broadway
Suite 500
Portland, Oregon 97205

Air Waybill No. 7933 5843 0530

Page 1 of 1 Pages

Shipper's Reference Number

Consignee

USEPA Region 10 Lab
7411 Beach Drive East
Port Orchard, Washington 98366

FedEx Express

Two completed and signed copies of this Declaration must be handed to the operator

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: *(delete non applicable)*

PASSENGER AND CARGO AIRCRAFT | ~~CARGO AIRCRAFT ONLY~~

Airport of Departure: Portland, Oregon

Airport of Destination: Seattle, Washington

Shipment type: *(delete non-applicable)*

NON-RADIOACTIVE | ~~RADIOACTIVE~~

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification				Quantity and type of packaging	Packing Inst.	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group			
UN 2315	Polychlorinated biphenyls, liquid	9	II	1-1A2 Steel Drum X 150 ml	907	

Additional Handling Information

Inner Packaging Complies with IATA

FX-06 Applies as this is suspected to contain PCBs.

Emergency Telephone Number 206-553-1263

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory

Bruce Long, Investigator

Place and Date

Portland, Oregon March 16, 2010

Signature *(see warning above)*

FOR RADIOACTIVE MATERIAL SHIPMENT ACCEPTABLE FOR PASSENGER AIRCRAFT, THE SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN OR INCIDENT TO RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

From: Origin ID: VKWA (503) 326-3686
Bruce Long
US EPA Oregon Operations Office
805 SW Broadway

Portland, OR 97205

FedEx Express

J10101002220224

Ship Date: 16MAR10
ActWgt: 10.0 LB
CAD: 101243433/INET3010

Dims: 1 X 12 X 22 IN

Delivery Address Bar Code

Ref # Samples
Invoice #
PO #
Dept #

SHIP TO: (360) 871-8760 **BILL SENDER**

Karen Norton
USEPA Region 10 Lab
7411 BEACH DR E
EAST
PORT ORCHARD, WA 98366

TRK# 0201 7933 5843 0530

WED - 17 MAR AM
PRIORITY OVERNIGHT

IDG ASR

98366
WA-US
SEA

85 PWTA

505G1/F653/5FE8

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ORRCO Fuel Processors, Inc, OOO-145A ---Formal Request

Bethany Plewe to: Gerald Dodo, Barry Pepich, David Dobb, Christopher Pace, Megan Pickett, Steve Reimer, Randy Cummings, Theodore Haigh, Karen Norton, Kathy York

03/15/2010 10:27 AM

Cc: Bruce Long

EPA Region 10
Manchester Laboratory Support Request

Project Name : ***ORRCO Fuel Processors, Inc, ~~Central Point, OR~~*** Portland, Oregon
Project Code : OOO-145A
Account Code : 20102011B10P201B53C
Sample Numbers : 10104400-10104449

	Criminal	Superfund Remedial	Compliance Monitoring	Drinking Water Programs	Surface Water Protection	RCRA CA	Brownfields
Program/project*			X				
NPM*	OECA	OSWER	OECA	OW	OW	OSWER	OSWER

* 'X' the Program/ Project then change 'frequent' NPM below if necessary. For compliance monitoring/criminal projects, also write in the specific data use such as RCRA, NPDES, TSCA, etc. after the 'X'. For surface water, specify 'TMDL' after the 'X' if applicable.

RAP ANALYSES REQUESTED:

PARAMETER OR GROUP OF COMPOUNDS	METHOD	REPORTING LIMITS	# oil wipes
PCB aroclor	8082	1 mg/L extract	20

Sampling/Shipping Dates: March 16, 2010
Turnaround Time Requested : preliminary results requested, as per MEL
Q.A. Chemist Reviewing QAPP : Bethany Plewe
Final Data Will Be Sent to : Bruce Long
Who Reviews? : MEL
Project Manager : Bruce Long **Phone** : 503-326-3686
Has this project been previously requested/if so when? No
Comments : Bruce sent PCB inspection attachment previously
Requested by : Bethany Plewe, RSCC **Date** : March 15, 2010
phone: (206) 553-1603
plewe.bethany@epa.gov

BELOW FOR LAB USE ONLY

Accepted Parameters:

SHIPPER'S DECLARATION FOR DANGEROUS GOODS (Provide at least three copies to the airline.)

Shipper

USEPA Oregon Operations Office
805 SW Broadway
Suite 500
Portland, Oregon 97205

Air Waybill No. 7433 5843 0530

Page 1 of 1 Pages

Shipper's Reference Number

Consignee

USEPA Region 10 Lab
7411 Beach Drive East
Port Orchard, Washington 98366

FedEx Express

Two completed and signed copies of this Declaration must be handed to the operator

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PASSENGER AND CARGO AIRCRAFT | ~~CARGO AIRCRAFT ONLY~~ XXX

Airport of Departure: Portland, Oregon

Airport of Destination: Seattle, Washington

Shipment type: *(delete non-applicable)*

NON-RADIOACTIVE | ~~RADIOACTIVE~~

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Name/Title of Signatory

Bruce Long, Investigator

Place and Date

Portland, Oregon March 16, 2010

Signature *(see warning above)*

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